MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2017/2018

BCP2214– COMPUTER PROGRAMMING
(All sections / Groups)

21 OCT 2017
9.00 AM -11.00 AM
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of **TWO (2)** printed pages with four essay questions.

2. Answer ALL questions.

3. The answer should be written in the answer booklet.

Instructions: Answer all questions. Write your answer in the answer booklet.

Question 1

a. Write a C++ program to enter a number to check whether it is a prime number or not, then display it on the screen: [10 Marks]

b. Write a C++ program to calculate the simple interest repeatedly until the user enter choice as "N".

Simple interest = (P*N*Y)/100 , where P – Principle , N- Number of years and R is rate of interest.   [15 Marks]

Question 2

a. Using arrays, write a C++ program to enter the marks obtained in five subjects then calculate and display the average and total percentage marks.   [15 marks]

Average = sum of 5 subject marks / 5

Percentage = (sum of 5 subject marks / 500)*100

b. Write a C++ program to enter the array size and array value then find the largest number in the array and display the result.   [10 Marks]

Question 3

a. Using function, write a C++ program to enter the temperature in centigrade to convert it into Fahrenheit, then display the result.   [10 Marks]

b. Write a C++ program to find factorial value using function.   [15 Marks]

Continued......

Question 4

Define a class to represent a bank account. Include the following members: [25 Marks]

Data members:

1) Name of the depositor
2) Account number
3) Type of account
4) Balance amount in the account.

Member functions:
1) To assign initial values
2) To deposit an amount
3) To withdraw an amount after checking the balance
4) To display name and balance.

Write a main program to test the program and display results as per the following format:

Output:

```
Enter Details:
- - - - - - - - - - - - - - - - - - - - - -
Accout No. 45789123

Name : Mangala

Account Type : Saving

Balance : 50000

Enter Deposit Amount = 5000

Enter Withdraw Amount = 10000

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Accout No. : 45789123
Name : Mangala
Account Type : Saving
Balance : 45000
```

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